AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF CLAIMS:

1-18. (cancelled)

19. (currently amended)[[:]] ~~Bioactive dishes~~ A bioactive dish for cell cultures, the dish comprising ~~on their~~ a bottom surface, and

a bilayer coated on the bottom surface, the bilayer comprising an internal primary layer made of hydroxypropylmethylcellulose (HPMC)[[,]] or polyvinyl alcohol (PVA) in contact with the bottom surface ~~of the dishes~~, and an external bioactive layer ~~made of~~ comprising carboxypropylmethylcellulose situated on said internal primary layer.

20. (currently amended)[[:]] ~~Bioactive dishes~~ The bioactive dish according to claim 19, ~~characterized in that they are~~ said dish presented in the form of a Petri dish ~~dishes, such as polystyrene Petri dishes of commercial origin,~~ or in the form of a multi-well plate ~~plates, on the bottom of which the bilayer is situated~~.

21. (currently amended)[[:]] ~~Bioactive dishes~~ The bioactive dish according to claim 19, ~~characterized in that the thicknesses of~~ wherein the internal HPMC or PVA layer, and ~~of~~ the external CMC layer, each have a thickness of ~~are a few microns, in particular~~ approximately 1 to 5 microns.

22. (currently amended)[[:]] ~~Method~~ A method for preparing the bioactive dish ~~dishes~~ according to claim 19, comprising ~~characterized in that it comprises~~:

[[-]] ~~a stage of activation of~~ activating the surface of the bottom of the dish ~~dishes~~ by electromagnetic discharges,

[[-]] ~~the~~ depositing ~~of~~ the internal HPMC primary layer on the bottom of the dish ~~dishes~~, and then drying the primary layer,

[[-]] ~~the~~ depositing ~~of~~ the external bioactive layer on the dried primary layer obtained in the preceding stage, and then drying the external bioactive layer.

23. (canceled)

24. (currently amended)[[:]] ~~Method~~ A method for screening anti-ageing molecules intended to ~~prevent~~ inhibit ~~and~~ or delay the effects of ageing, ~~characterized in that it comprises~~ comprising:

[[-]] ~~a stage of~~ culturing cells~~, such as fibroblasts,~~ in the presence of ~~the~~ an anti-ageing ~~molecules~~ molecule to be studied, in the culture dishes defined in claim 19,

[[-]] ~~the observation of~~ observing the cells by microscope ~~in order~~ to obtain observations regarding ~~study their~~ the cells' morphology,

[[-]] optionally detecting and/or quantifying the cells' proliferation and/or the cells' synthesis to obtain data ~~and/or the detection, or even the quantification, of the proliferation and syntheses~~,

[[-]] ~~and the comparison with~~ comparing the observations and/or data ~~results~~ obtained in the steps above ~~on~~ with observations and/or data obtained in cultures of control cells ~~used as controls~~, said control ~~cultures~~ cells being ~~carried out by culturing said cells~~ cultured in said culture dishes but in the absence of said anti-ageing molecules to be studied~~, in the dishes~~.

25. (currently amended)[[:]] ~~Method~~ A method for screening antitumor molecules intended for the treatment of cancer, ~~characterized in that it comprises~~ comprising:

[[-]] ~~a stage of~~ culturing tumor cells~~, such as animal or human melanoma cells,~~ in the presence of ~~the~~ an antitumor ~~molecules~~ molecule to be studied, in the culture dishes defined in claim 19,

[[-]] ~~observation of~~ observing the cells by microscope ~~in order~~ to obtain observations regarding ~~study their~~ the cells' morphology and/or ~~their~~ the cells' differentiation,

[[-]] optionally detecting and/or quantifying the cells' ~~and/or the detection, or even the quantification, of their~~ proliferation, differentiation and apoptosis to obtain data,

[[-]] and ~~comparison with~~ comparing the observations and/or data ~~results~~ obtained in the steps above with observations and/or data obtained in ~~on cell~~ cultures of control cells ~~used as controls~~, said control cells being cultured in said culture dishes but ~~cultures being carried out by culturing said cells~~ in the absence of said antitumor molecules to be studied~~, in the culture dishes~~.

26. (currently amended)[[:]] ~~Method~~ A method for *in vitro* diagnosis of the malignancy of tumor cells by ~~measurement of~~ measuring the residual ability of cancer cells to differentiate, ~~characterized in that it comprises~~ comprising:

[[-]] ~~a stage of~~ culturing cancer cells~~, such as human melanoma cells obtained from biopsies,~~ in the culture dishes defined in claim 19,

[[-]] ~~the observation of~~ observing the cells by microscope in order to study ~~their~~ the cells' morphology and/or differentiation, and

optionally detecting and/or quantifying the cells' ~~and/or the detection, or even the quantification, of their~~ proliferation, viability and apoptosis.

27. (canceled)

28. (new) A method for prognosing tumors, comprising applying the method for *in vitro* diagnosis according to claim 26 to a tumor cell sample.